

AMENDMENTS TO THE FIGURES

Attached hereto, Applicants have provided a replacement sheet of drawings for Figure 13.

In the attached Replacement sheet for Figure 13, Applicants have corrected the informality (misspelling) in original Figure 13. In view of the attached Replacement Sheet of Drawings, Applicants respectfully request reconsideration and withdrawal of the outstanding objection to the drawings.

REMARKS

Re-examination and allowance of the above-captioned application is respectfully requested.

In the outstanding Official Action, Figure 13 was objected-to for an informal error. Claims 9-11, 17 and 19 were objected-to for informalities. Claim 14 was rejected under 35 U.S.C. §112, first paragraph. Claims 8-10 and 14 were rejected under 35 U.S.C. §112, second paragraph.

Claims 1, 3, 4 and 18-20 were rejected under 35 U.S.C. §102(b) over BAIER et al. (U.S. Patent No. 5,375,255). Claims 8 and 13 were rejected under 35 U.S.C. §102(b) over HENRION (U.S. Patent No. 5,594,612). Claims 8, 10, 11, 13, 16 and 17 were rejected under 35 U.S.C. §103(a) over TOL et al. (U.S. Patent No. 4,746,902) in view of BAIER. Claim 12 was rejected under 35 U.S.C. §103(a) over TOL in view of BAIER, and further in view of MARU (U.S. Patent No. 6,553,084).

Initially, Applicants note that they have attached hereto a Replacement sheet of drawings for Figure 13 in which the informality noted by the Examiner has been corrected. In view of the attached Replacement drawings for Figure 13, Applicants respectfully request reconsideration and withdrawal of the objection to the drawings.

Upon entry of the present amendment claims 8-11, 14 and 17 will have been amended to eliminate informalities. Further claims 4, 19 and 20 will have been cancelled without prejudice to or disclaimer of the subject

matter recited therein. In view of the herein-contained amendments to claims 8-11, 14 and 17, as well as the cancellation of claim 19, Applicants respectfully request reconsideration and withdrawal of the objections to claims 9-11, 17 and 19 for informalities, as well as the rejection of claims 8-10 and 14 under 35 U.S.C. §112, second paragraph and the rejection of claim 14 under 35 U.S.C. §112, first paragraph.

Applicants traverse the rejection of claims 1, 3, 4 and 18-20 under 35 U.S.C. §102(b) over BAIER et al. (U.S. Patent No. 5,375,255). In this regard, upon entry of the present amendment, claim 1 will have been amended to include substantially all of the features previously recited in claim 4. Further, as noted above, claims 4 and 19-20 will have been cancelled without prejudice to or disclaimer of the subject matter recited therein. Accordingly, Applicants respectfully submit that the rejection of claims 4 and 19-20 has been rendered moot.

Applicants submit that amended claim 1 is allowable over BAIER. According to the invention recited in amended claim 1, the amplitude of a received signal is adjusted based on the amplitude of a signal that is contained in the processed received signal. The amplitude of the signal that is contained in the processed received signal is necessary for demodulation. The above-noted feature is disclosed in an exemplary embodiment of the present application shown in Figure 7.

Figure 7 shows a control section (i.e., adjuster) 702. According to the embodiment shown in Figure 7, the control section 702 receives as input a signal that is contained in the received signal and that is necessary for demodulation. In other words, the received signal from which signals of channels used with respect to communication apparatuses other than the digital receiving apparatus of control section 702 are cancelled. The control section 702 controls a gain adjuster 701 based on the amplitude of the input signal.

In contrast, BAIER discloses no element similar or equivalent to the gain adjuster 701 and the control section 702. In this regard, BAIER only discloses performing a non-linear dynamic compression in IF amplifier 22, and does not disclose adjusting the amplitude of the received signal based on the amplitude of a signal that is contained in the received signal and that is necessary for demodulation.

Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejection of claim 1, at least because BAIER fails to disclose or suggest the above-noted features recited in claim 1, as would be necessary for the rejection of claim 1 to be properly maintained. Applicants further submit that claims 3 and 18 are allowable at least for depending, directly or indirectly, from an allowable independent claim 1, as well as for additional reasons related to their own recitations.

Applicants further submit that no other reference cited in the outstanding Official Action discloses or suggests, in the claimed combination, the above-noted features recited in claim 1, 3 or 18; nor has the outstanding Official Action applied any of these references in a rejection of claims containing the above-noted features.

Applicants traverse the rejection of claims 8 and 13 under 35 U.S.C. §102(b) over HENRION. In particular, the outstanding Official Action asserts that HENRION discloses that a correcting signal “is indicative of an inverse characteristic of the non-linear quantized signal”. Applicants respectfully submit that outstanding Official Action is in error. Further, there is no basis provided in the outstanding Official Action for the above-noted assertion; nor is any basis for this assertion provided in HENRION. Accordingly, Applicants respectfully submit that HENRION does not disclose, in the claimed combination, at least “the distortion converter comprising a linear compensator, the non-linear quantized signal being input to the linear compensator which determines a correcting signal that is indicative of an inverse characteristic of the non-linear quantized signal, the correcting signal being utilized by the linear compensator to convert the non-linear quantized signal to the linear signal” as is recited in claim 13.

Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejection of claim 13 over HENRION, at least for the reasons set forth above. Applicants additionally submit that claim 8 is

allowable over HENRION at least for depending from an allowable independent claim 8, as well as for additional reasons related to its own recitations.

Applicants further submit that no other reference cited in the outstanding Official Action discloses or suggests, in the claimed combination, the above-noted features recited in claim 8 and 13.

Applicants traverse the rejection of claims 8, 10, 11, 13, 16 and 17 under 35 U.S.C. §103(a) over TOL in view of BAIER. In this regard, the outstanding Official Action has not provided a proper motivation to modify TOL with the teachings of BAIER. In particular, the outstanding Official Action asserts that it would be obvious to provide the circuit of TOL to the digital processing section 30 of BAIER in order to improve linearity. However BAIER already addresses the issue of non-linearity, and does not suggest further modification and complication. Accordingly, Applicants respectfully suggest that the only motivation to modify the invention recited in TOL with the circuit of BAIER is the Examiner's improper motivation to obtain Applicants' claimed invention in hindsight.

Additionally, even the combination of TOL and BAIER would not result in the invention recited in claim 13. In this regard, even if BAIER were modified in the manner asserted in the outstanding Official Action, the circuit of TOL is not disclosed to determine "a correcting signal that is

indicative of an inverse characteristic of the non-linear quantized signal” as recited in claim 13.

Accordingly, Applicants respectfully submit that claim 13 is allowable over TOL in view of BAIER, at least for each of the reasons set forth above. Applicants further submit that claims 8-11 and 14-17 are allowable at least for depending, directly or indirectly, from an allowable independent claim 13, as well as for additional reasons related to their own recitations. In this regard, Applicants note that claims 9 and 14 were not rejected over any references. Accordingly, Applicants respectfully submit that the outstanding Official Action implicitly acknowledges the allowability of claims 9 and 14 over the references applied by the Examiner, if amended to eliminate the informalities noted by the Examiner. Further, the outstanding Official Action acknowledges the allowability of the subject matter recited in claim 15.

Applicants further submit that no other reference cited in the outstanding Official Action discloses or suggests, in the claimed combination, the above-noted features recited in claim 8-11 and 14-17. Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejection of claims 8, 10-11, 13 and 16-17, at least for each of the reasons set forth above.

Applicants traverse the rejection of claim 12 under 35 U.S.C. §103(a) over TOL in view of BAIER, and further in view of MARU. In this

regard, Applicants respectfully submit that claim 12 is allowable at least for depending, directly or indirectly, from an allowable independent claim 13, as well as for additional reasons related to its own recitations. Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejection of claim 12, at least for the reasons set forth above.

Accordingly, Applicants respectfully request reconsideration and withdrawal of each of the outstanding objections and rejections, as well as an indication of the allowability of each of the claims now pending, at least for the numerous reasons set forth above.

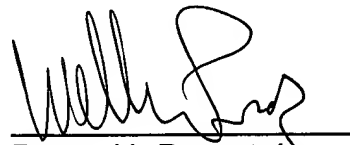
SUMMARY AND CONCLUSION

In view of the fact that none of the art of record, whether considered alone or in combination, discloses or suggests the present invention as now defined by the pending claims, and in further view of the above amendments and remarks, reconsideration of the Examiner's action and allowance of the present application are respectfully requested and are believed to be appropriate.

Any amendments which have been made in this amendment, and which have not been specifically noted to overcome a rejection based upon the prior art, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto.

If there should be any questions concerning this application, the Examiner is requested to contact the undersigned at the telephone number listed below.

Respectfully Submitted,
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